

Coenzyme Beta Nadph, Reduced Form Tetrasodium Salt

Catalog No.	CSI20352A	Quantity:	100 mg
	CSI20352B		1.0 gram

Description: Nicotinamide adenine dinucleotide phosphate (NADP⁺, in older notation triphosphopyridine nucleotide, TPN) is used in anabolic reactions, such as lipid and nucleic acid synthesis, which require NADPH as a reducing agent.

NADPH is the reduced form of NADP⁺, and NADP⁺ is the oxidized form of NADPH. NADP⁺ differs from NAD⁺ by the presence in NADP⁺ of an additional phosphate group on the 2' position of the ribose ring that carries the adenine moiety. The oxidative phase of the pentose phosphate pathway is the major source of NADPH in cells, producing approximately 60% of the NADPH required.

Form: Lyophilized

Formula: C₂₁H₂₆N₇O₁₇P₃Na₄

Source: Yeast

Purity: >96%

CAS No: 2646-71-16

UV Spectral Analysis: Ratios at pH 10.0
A₃₄₀/A₂₆₀ (0.43 + or - 0.02)
Extinction Coefficient at 260nm (14.4 + or - 0.5) x 10000
Extinction Coefficient at 340nm (6.2 + or - 0.2) x 10000

Unstable in acids, but relatively stable at pH 10-1

Storage & Stability: -20°C

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.